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APPLICATION NO.	F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO. CONFIRMATION NO.		
09/893,252	2 06/27/2001		Peter Styczynski	00216-552001 / H-245 (KAY	1872	
26161	7590	10/19/2005		EXAMINER		
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MINNEAPOLIS, MN 55440-1022			ART UNIT	PAPER NUMBER		
	ŕ			1617		

DATE MAILED: 10/19/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

_		Application No.	Applicant(s)					
		09/893,252	STYCZYNSKI ET AL.					
	Office Action Summary	Examiner	Art Unit					
		Gina C. Yu	1617					
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet w	vith the correspondence address					
WHIC - Exter after - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MAIL sions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic. period for reply is specified above, the maximum statutor re to reply within the set or extended period for reply will, eply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	ING DATE OF THIS COMMUN CFR 1.136(a). In no event, however, may a ation. Ty period will apply and will expire SIX (6) MO by statute, cause the application to become in	ICATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).					
Status								
1) 又	Responsive to communication(s) filed o	n 16 June 2005.						
·	_	☐ This action is non-final.						
3)□	Since this application is in condition for		tters, prosecution as to the merits is					
	closed in accordance with the practice u	under <i>Ex parte Quayl</i> e, 1935 C.	D. 11, 453 O.G. 213.					
Dispositi	on of Claims							
4)🖂)⊠ Claim(s) <u>1-48 and 52-55</u> is/are pending in the application.							
	4a) Of the above claim(s) is/are withdrawn from consideration.							
5)□	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1-48 and 52-55</u> is/are rejected.							
7)	Claim(s) is/are objected to.							
8)□	Claim(s) are subject to restriction	and/or election requirement.						
Applicati	on Papers							
9)	The specification is objected to by the Ex	xaminer.						
10)	10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.							
	Applicant may not request that any objection	n to the drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).					
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11)	The oath or declaration is objected to by	the Examiner. Note the attache	ed Office Action or form PTO-152.					
Priority u	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 								
	2. Certified copies of the priority doc3. Copies of the certified copies of the							
	application from the International		in received in this National Stage					
* 5	See the attached detailed Office action for	, , , , , , , , , , , , , , , , , , , ,	t received.					
Attachmen	· NS)							
	e of References Cited (PTO-892)	4) Interview	Summary (PTO-413)					
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-	948) Paper No	(s)/Mail Date					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152) 6) Other:								

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114.

Applicant's submission filed on June 16, 2005 has been entered. Claims 1-48 and 52-55 are pending.

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claim 55 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 55 recites "a dermatologically acceptable non-depilatory composition". The specification does not define what the metes and bounds of the scope of this limitation are. The claim is deemed vague and indefinite.

Claim Rejections - 35 USC § 103

The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

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Claims 1-48 and 52-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over West et al. (US 6368789 B1) and Black (WO99/19466) in view of applicants' own admission and Styczynski et al. (US6,020,006).

West et al. teach a method for treatment of a condition associated with an elevated level of telomerase activity within a cell, which involves administering to that cell a therapeutically effective amount of an inhibitor of telomerase activity. See col. 10, lines 43 – 47. Telomerase inhibitors AZT, d4T (3'-deoxy-2:3'didehydrothymidine), (TTAGGG)3, and ddl (dideoxyinosine), among others, are taught. See col. 49, line 40 – col. 54, line 48. The reference teaches that activators of telomerase forestalls and reverses cellular senescence, including hair follicle cells which causes hair loss. See col. 10, lines 9-24. Since the reference teaches that the activation of telomerase can delay and reverse the aging of hair follicle cells, a skilled artisan would have obviously envisioned that the inhibitors of telomerase would reduce hair growth.

Black teaches thymidine kinase mutants and fusion proteins having thymidine kinase and guanylate kinase activity. See page 32 for a teaching of nucleoside analogues, such as AZT, as depilatory reagent that destroy hair follicles. The reference specifically states that within other embodiments of the invention, methods are provided for inhibiting the growth of or destroying cells, which are not traditionally associated with a disease . . .to destroy hair follicles (as a depilatory reagent).

Applicants admit in specification p. 3-4 that the recited telomerase inhibitors are known in publications. Since the telomerase inhibitors taught in

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West et al. and Black are known to reduce hair growth, it would have been obvious to a skilled artisan that other telomerase inhibitors would also induce the same effects. See instant claims 2-6, 8, 9, and 13-32.

The combined references fail to teach the specific mode of topically applying the telomerase inhibitor.

Styczynski et al. teach the reduction of hair growth, see title. Specifically taught is a method of reducing mammalian hair growth which comprises selecting an area of skin from which reduced hair growth is desired, and applying to said area of skin a dermatologically acceptable composition comprising an inhibitor of alkaline phosphatase in an amount effective to reduce hair growth, see Col. 6, lines 12-19 of the reference. For the inhibitor comprising 0.1-30% of the composition, see Col. 6, lines 31-32 of the reference. For a reduction of hair growth of at least 30% and 50% when tested in the Golden Syrian hamster assay, see Col. 6, claims 9-10 of the reference. For the inhibitor applied to the skin in an amount of from 10-3000 micrograms per square centimeter of skin, See Col. 6, claim 11 of the reference. For application to a human, to the face, to the leg, to the arm, to the armpit, to the area of skin in conjunction with shaving and to the torso, see Col. 6, claims 13-18 of the reference. For a woman suffering from hirsutism and androgen stimulated hair growth, see Col. 6, claims 19-20. For application once or twice a hair for 2 days (i.e., 48 hours), see Col. 3, line 66-Co1. 4, line 12.

Given the suggestion and teaching of West et al. and Black that inhibitors of telomerase reduce hair growth or depilate the hair follicle cells, one of ordinary

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skill in the art at the time the invention was made would have been motivated to look to the prior art such as Styczynski for a specific mode of topical administration of the hair growth reducing agents that is well known in the art.

Response to Arguments

Applicant's arguments filed on June 16, 2005 have been fully considered but they are most in view of new grounds of rejection in part and not persuasive in part.

Applicants now assert that Black fails to teach using AZT as a depilatory agent and instead teaches the nucleoside analogue to treat the tumors.

Examiner respectfully disagrees, and views that the prior art makes a reference to the nucleoside analogues including AZT be used in an embodiment along with a vector "to destroy hair follicles".

Conclusion

No claims are allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gina C. Yu whose telephone number is 571-272-8605.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sreeni Padmanabhan can be reached on 571-272-0629. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Gina Yu Patent Examiner

> SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER

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